



Hillrom™

Welch Allyn TM 286 AutoTymp System

PRODUCT SPECIFICATIONS

Standards and Compliance	Standards	UL 60601-1 Medical Electrical Equipment Requirements for Safety; IEC/EN 60601-1 General Requirements for Safety; CSA C22.2 No. 601-1-M90; ANSI S3.39-1987 Aural Acoustic Impedance Admittance (Type 3); IEC 60645-5 Aural Acoustic Impedance/Admittance (Type 2); ANSI S3.6-2004 Audiometers (Type 4); IEC 60645-1 Pure Tone Audiometers (Type 4); GL2005-00014 (ASHA 2005) Guidelines for Manual Pure-Tone Threshold Audiometry
Tympanometry Mode	Probe Tone	226 Hz, $\pm 2\%$
	Sound Pressure Level	226 Hz: 85.5 dB SPL, ± 2.0 dB, measured in a 2.0 cm ³ coupler
	Harmonic Distortion	< 3%
	Admittance (Compliance) Range	226 Hz: 0.0 to 1.5 cm ³ or 0.0 to 3.0 cm ³
	Pressure Range	+200 to -400 daPa
	Pressure Accuracy	± 10 daPa or $\pm 15\%$, whichever is greater
	Rate of Sweep	600 daPa/sec except near tympanogram peak where sweep rate slows to 200 daPa/sec to provide better definition of peak compliance
	Direction of Sweep	Positive to negative
	Tympanogram Test Time	Approximately 1 second
Reflex Mode	Frequencies	500, 1000, 2000, and 4000 Hz for ipsilateral stimulation
	Accuracy	$\pm 3\%$
	Total Harmonic Distortion	< 5% for outputs less than 110 dB HL and < 10% at 110 dB HL
	Rise/Fall Time	5 to 10 msec
	Output Levels	Ipsilateral: 500 and 4000 Hz: 80, 90, 100 dB HL; 1000 and 2000 Hz: 85, 95, 105 dB HL
	Pressure	Reflex measures are set automatically to pressure at peak compliance with an offset of -20 daPa if peak pressure is negative and +20 daPa if peak pressure is positive.
	Reflex Determination	Compliance change of 0.05 cm ³ or greater
	Reflex Test Time	1 to 12 seconds depending upon the number of ipsilateral test frequencies selected (4 maximum) and intensity required
Audiometry Mode	Frequencies	125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz
	Accuracy	$\pm 2\%$
	Total Harmonic Distortion	< 2.5% (125 to 3000 Hz measured acoustically at maximum dB HL; 4000 and 6000 Hz measured electrically)

PRODUCT SPECIFICATIONS (CONTINUED)

Audiometry Mode	Frequencies	125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz
	Accuracy	± 2%
	Total Harmonic Distortion	< 2.5% (125 to 3000 Hz measured acoustically at maximum dB HL; 4000 and 6000 Hz measured electrically)
	Audiometric Headset	Pair External earphones Type 51 cushions (60 ohms impedance). Headband force per ANSI S3.6 and IEC 645 (4.5 N ± 0.5)
	External Headset Earphones	125 Hz: -10 to 50 dB HL; 500 to 4000 Hz: -10 to 90 dB HL; 6000 Hz: -10 to 85 dB HL; 250 and 8000 Hz: -10 to 70 dB HL
	Accuracy	125 to 4000 Hz ± 3 dB; 6000 and 8000 Hz ± 5 dB
	Step Size	5 dB
	Signal-to-Noise Ratio	> 70 dB in 1/3 octave; less than -10 dB HL for levels less than 60 dB HL
	Rise/Fall Time	20 to 50 msec
	Continuous	Tone is steady when present bar is depressed
	Pulsed	Tone is pulsed at 2.5/sec (i.e., 200 msec ON, 200 msec OFF)
	FM (frequency modulated)	Tone is frequency modulated at a rate of 5 Hz, ±5%
Power	Line Voltage	100 - 240 VAC (± 10%)
	Power Consumption	16 watts maximum while printing. Low-voltage input for desktop power supplies 7 VDC, 5.0 A
Mechanical	Instrument	Dimensions: 12.5" W x 14.5" D x 4.7" H (31.8 cm W x 36.8 cm D x 11.9 cm H); Weight: 5 lbs (2.3 kg)—unit and probe
	Shipping Carton	Carton Dimensions: 19.5" W x 22.5" D x 8.25" H (49.5 cm W x 57.2 cm D x 20.9 cm H); Weight: 13.1 lbs (6 kg)

ORDERING INFORMATION

28600: TM 286 AutoTymp

05260-U: TM 286 Carrying Case

23220: Audiometry Patient Response Switch

23221: Audiometry Single Patch Cord, 2-Conductor

23222: Audiometry Audio Cups

52600: TM 286 Printer Paper, 4" Thermal, 1 pkg of 5 rolls

26100: TM Eartips (6 sizes, 2 each)

26008: TM Eartips 8 mm (box of 25)

26011: TM Eartips 11 mm (box of 25)

26013: TM Eartips 13 mm (box of 25)

26015: TM Eartips 15 mm (box of 25)

26017: TM Eartips 17 mm (box of 25)

26019: TM Eartips 19 mm (box of 25)

For more information, please contact your local distributor or Hillrom sales representative at 1-800-535-6663.

hillrom.com

4341 State Street Road, Skaneateles Falls, NY 13153

Baxter, Hillrom, Welch Allyn and AutoTymp are trademarks of Baxter International, Inc. or its subsidiaries

Hill-Rom reserves the right to make changes without notice in design, specifications and models. The only warranty Hill-Rom makes is the express written warranty extended on the sale or rental of its products.

APR297801 Rev 1 01-AUG-2022 ENG - US